

BONE
BOTH SEXES

TABLE 5A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the bone, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	465	374	839
No. who developed a second primary cancer	24	11	35
Average age at diagnosis of first cancer, yr	39	39	39
Average yr of diagnosis of first cancer	1961	1961	1961
Person-yr of follow-up	2,296	2,106	4,402
Average follow-up, yr	4.9	5.6	5.2
Percent given radiotherapy for first cancer	39.8	44.1	41.7

+ ICD-0 code = 170.

* Number excludes all persons who survived less than 2 mo after the diagnosis of their first primary cancer or who developed a simultaneous cancer during this period. First primary cancers diagnosed only at autopsy or by death certificate are also excluded as are in situ cancers.

TABLE 5B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the bone in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	24	68.6
Only the first cancer	4	11.4
Only the second cancer	5	14.3
Neither first nor second cancer	2	5.7
Total second primary cancers	35	100.0

+ Minor discrepancies between table entries, and row and column sums in this and subsequent tables are due to rounding.

BONE
BOTH SEXES

TABLE 5C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bone among males and females in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	839			553			236			144			839		
Person-yr in interval	557			1,398			923			1,525			4,402		
All second cancers	6	2.25	2.7	8	5.47	1.5	7	4.20	1.7	14	9.20	1.5	35	21.11	1.7*
All excluding site of initial cancer	5	2.24	2.2	8	5.45	1.5	7	4.19	1.7	14	9.19	1.5	34	21.06	1.6*
Buccal cavity, pharynx	0	0.09	0.0	0	0.23	0.0	0	0.17	0.0	0	0.34	0.0	0	0.83	0.0
Lip	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.04	0.0	0	0.13	0.0
Tongue	0	0.02	0.0	0	0.05	0.0	0	0.03	0.0	0	0.07	0.0	0	0.17	0.0
Salivary gland	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.02	0.0	0	0.06	0.0
Gum, other mouth	0	0.03	0.0	0	0.07	0.0	0	0.05	0.0	0	0.10	0.0	0	0.24	0.0
Pharynx	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.09	0.0	0	0.21	0.0
Digestive system	1	0.70	1.4	2	1.62	1.2	0	1.23	0.0	3	2.56	1.2	6	6.11	1.0
Esophagus	0	0.04	0.0	0	0.09	0.0	0	0.07	0.0	0	0.13	0.0	0	0.33	0.0
Stomach	0	0.13	0.0	1	0.29	3.5	0	0.20	0.0	1	0.37	2.7	2	0.99	2.0
Colon	1	0.27	3.8	1	0.62	1.6	0	0.49	0.0	0	1.08	0.0	2	2.46	0.8
Rectum	0	0.14	0.0	0	0.34	0.0	0	0.25	0.0	1	0.53	1.9	1	1.27	0.8
Liver, biliary	0	0.04	0.0	0	0.09	0.0	0	0.07	0.0	0	0.14	0.0	0	0.34	0.0
Pancreas	0	0.07	0.0	0	0.16	0.0	0	0.12	0.0	0	0.26	0.0	0	0.61	0.0
Respiratory system	1	0.31	3.2	1	0.79	1.3	1	0.62	1.6	4	1.40	2.9	7	3.12	2.2
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.04	0.0
Larynx	1	0.04	27.7	0	0.09	0.0	0	0.07	0.0	1	0.14	7.0	2	0.34	5.8
Trachea, bronchus, lung	0	0.27	0.0	1	0.68	1.5	1	0.53	1.9	3	1.22	2.5	5	2.70	1.9
Female breast	0	0.23	0.0	0	0.55	0.0	1	0.48	2.1	1	1.12	0.9	2	2.38	0.8
Female genital tract	0	0.16	0.0	0	0.38	0.0	1	0.31	3.3	2	0.70	2.9	3	1.55	1.9
Cervix uteri	0	0.04	0.0	0	0.10	0.0	0	0.08	0.0	1	0.15	6.5	1	0.37	2.7
Corpus uteri	0	0.06	0.0	0	0.14	0.0	1	0.11	9.1	0	0.29	0.0	1	0.59	1.7
Uterus, NOS	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	1	0.03	32.0	1	0.09	11.0
Ovary, fallopian tubes	0	0.04	0.0	0	0.10	0.0	0	0.09	0.0	0	0.19	0.0	0	0.42	0.0
Prostate gland	1	0.22	4.5	1	0.55	1.8	1	0.39	2.5	1	0.90	1.1	4	2.06	1.9
Testis	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.03	0.0	0	0.08	0.0
Kidney, renal pelvis, ureter	1	0.05	21.3	0	0.12	0.0	0	0.09	0.0	0	0.20	0.0	1	0.46	2.2
Bladder, other urinary	0	0.11	0.0	0	0.28	0.0	0	0.22	0.0	1	0.48	2.1	1	1.10	0.9
Melanoma of the skin	0	0.03	0.0	0	0.08	0.0	0	0.06	0.0	0	0.16	0.0	0	0.33	0.0
Eye	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.03	0.0
Brain, central nervous system	0	0.03	0.0	0	0.08	0.0	0	0.06	0.0	1	0.12	8.1	1	0.29	3.4
Thyroid gland	0	0.01	0.0	0	0.04	0.0	0	0.03	0.0	0	0.07	0.0	0	0.15	0.0
Bone	1	0.01	119.2*	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	1	0.05	20.1
Connective tissue	0	0.01	0.0	0	0.03	0.0	2	0.03	79.5*	0	0.05	0.0	2	0.12	16.4*
Lymphatic, hematopoietic system	1	0.16	6.3	3	0.39	7.7*	0	0.30	0.0	1	0.64	1.6	5	1.49	3.4*
Non-Hodgkin's lymphoma	1	0.05	19.1	1	0.13	7.7	0	0.10	0.0	0	0.23	0.0	2	0.51	4.0
Hodgkin's disease	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.07	0.0	0	0.19	0.0
Multiple myeloma	0	0.02	0.0	1	0.05	20.5	0	0.04	0.0	0	0.10	0.0	1	0.21	4.9
Leukemias	0	0.06	0.0	1	0.16	6.4	0	0.12	0.0	1	0.25	4.0	2	0.59	3.4
Chronic lymphocytic	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.07	0.0	0	0.16	0.0
Acute nonlymphocytic	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	1	0.08	11.9	1	0.19	5.3

+ ICD-O code = 170.

* P<.05.

BONE
MALES

TABLE 5D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bone among males in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	465			308			125			73			465		
Person-yr in interval	309			765			469			752			2,296		
All second cancers	4	1.38	2.9	7	3.48	2.0	4	2.51	1.6	9	5.35	1.7	24	12.72	1.9*
All excluding site of initial cancer	3	1.37	2.2	7	3.47	2.0	4	2.50	1.6	9	5.34	1.7	23	12.69	1.8*
Buccal cavity, pharynx	0	0.08	0.0	0	0.20	0.0	0	0.14	0.0	0	0.27	0.0	0	0.69	0.0
Lip	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.04	0.0	0	0.12	0.0
Tongue	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.05	0.0	0	0.14	0.0
Salivary gland	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.04	0.0
Gum, other mouth	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.08	0.0	0	0.19	0.0
Pharynx	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.07	0.0	0	0.17	0.0
Digestive system	0	0.45	0.0	2	1.12	1.8	0	0.78	0.0	3	1.60	1.9	5	3.95	1.3
Esophagus	0	0.03	0.0	0	0.08	0.0	0	0.06	0.0	0	0.10	0.0	0	0.28	0.0
Stomach	0	0.10	0.0	1	0.22	4.4	0	0.15	0.0	1	0.26	3.8	2	0.73	2.7
Colon	0	0.15	0.0	1	0.39	2.6	0	0.28	0.0	0	0.62	0.0	1	1.44	0.7
Rectum	0	0.10	0.0	0	0.24	0.0	0	0.17	0.0	1	0.34	3.0	1	0.84	1.2
Liver, biliary	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.08	0.0	0	0.20	0.0
Pancreas	0	0.04	0.0	0	0.11	0.0	0	0.08	0.0	0	0.17	0.0	0	0.40	0.0
Respiratory system	0	0.26	0.0	1	0.68	1.5	1	0.52	1.9	3	1.14	2.6	5	2.60	1.9
Nasal cavities, sinuses	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.03	0.0
Larynx	0	0.03	0.0	0	0.09	0.0	0	0.06	0.0	1	0.13	7.9	1	0.31	3.2
Trachea, bronchus, lung	0	0.22	0.0	1	0.57	1.7	1	0.45	2.2	2	0.99	2.0	4	2.23	1.8
Prostate gland	1	0.22	4.5	1	0.55	1.8	1	0.39	2.5	1	0.90	1.1	4	2.06	1.9
Testis	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.03	0.0	0	0.08	0.0
Kidney, renal pelvis, ureter	1	0.03	29.3	0	0.09	0.0	0	0.07	0.0	0	0.14	0.0	1	0.33	3.0
Bladder, other urinary	0	0.09	0.0	0	0.24	0.0	0	0.18	0.0	1	0.39	2.6	1	0.90	1.1
Melanoma of the skin	0	0.02	0.0	0	0.05	0.0	0	0.03	0.0	0	0.09	0.0	0	0.19	0.0
Eye	0	0.00	0.0	0	0.01	0.0	0	0.00	0.0	0	0.01	0.0	0	0.02	0.0
Brain, central nervous system	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	1	0.07	13.6	1	0.18	5.5
Thyroid gland	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.05	0.0
Bone	1	0.01	188.4*	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	1	0.03	32.3
Connective tissue	0	0.01	0.0	0	0.02	0.0	1	0.02	63.8	0	0.03	0.0	1	0.08	12.8
Lymphatic, hematopoietic system	1	0.10	9.9	3	0.26	11.5*	0	0.18	0.0	0	0.39	0.0	4	0.94	4.3*
Non-Hodgkin's lymphoma	1	0.03	31.1	1	0.08	12.0	0	0.06	0.0	0	0.13	0.0	2	0.30	6.6
Hodgkin's disease	0	0.01	0.0	0	0.04	0.0	0	0.03	0.0	0	0.04	0.0	0	0.12	0.0
Multiple myeloma	0	0.01	0.0	1	0.03	32.0	0	0.02	0.0	0	0.06	0.0	1	0.12	8.1
Leukemias	0	0.04	0.0	1	0.11	9.1	0	0.08	0.0	0	0.16	0.0	1	0.39	2.5
Chronic lymphocytic	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.05	0.0	0	0.11	0.0
Acute nonlymphocytic	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.05	0.0	0	0.12	0.0

+ ICD-O code = 170.

* P<.05.

BONE
FEMALES

TABLE 5E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bone among females in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	374		245		111		71		374		2,106			
Person-yr in interval	247		633		454		773								
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	2	0.87	2.3	1	1.98	0.5	3	1.69	1.8	5	3.85	1.3	11	8.39	1.3
All excluding site of initial cancer	2	0.87	2.3	1	1.97	0.5	3	1.69	1.8	5	3.84	1.3	11	8.37	1.3
Buccal cavity, pharynx	0	0.01	0.0	0	0.03	0.0	0	0.03	0.0	0	0.07	0.0	0	0.15	0.0
Lip	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0
Tongue	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.03	0.0
Salivary gland	0	0.00	0.0	0	0.01	0.0	0	0.00	0.0	0	0.01	0.0	0	0.02	0.0
Gum, other mouth	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.05	0.0
Pharynx	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.03	0.0
Digestive system	1	0.25	4.1	0	0.51	0.0	0	0.45	0.0	0	0.96	0.0	1	2.16	0.5
Esophagus	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.05	0.0
Stomach	0	0.03	0.0	0	0.06	0.0	0	0.06	0.0	0	0.11	0.0	0	0.26	0.0
Colon	1	0.11	9.0	0	0.23	0.0	0	0.21	0.0	0	0.46	0.0	1	1.02	1.0
Rectum	0	0.05	0.0	0	0.10	0.0	0	0.09	0.0	0	0.19	0.0	0	0.43	0.0
Liver, biliary	0	0.02	0.0	0	0.03	0.0	0	0.03	0.0	0	0.06	0.0	0	0.14	0.0
Pancreas	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.10	0.0	0	0.21	0.0
Respiratory system	1	0.05	20.3	0	0.12	0.0	0	0.09	0.0	1	0.26	3.9	2	0.52	3.9
Nasal cavities, sinuses	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0
Larynx	1	0.00	336.9*	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	1	0.03	30.1
Trachea, bronchus, lung	0	0.04	0.0	0	0.10	0.0	0	0.08	0.0	1	0.23	4.3	1	0.46	2.2
Female breast	0	0.23	0.0	0	0.55	0.0	1	0.48	2.1	1	1.12	0.9	2	2.38	0.8
Female genital tract	0	0.16	0.0	0	0.38	0.0	1	0.31	3.3	2	0.70	2.9	3	1.55	1.9
Cervix uteri	0	0.04	0.0	0	0.10	0.0	0	0.08	0.0	1	0.15	6.5	1	0.37	2.7
Corpus uteri	0	0.06	0.0	0	0.14	0.0	1	0.11	9.1	0	0.29	0.0	1	0.59	1.7
Uterus, NOS	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	1	0.03	32.0	1	0.09	11.0
Ovary, fallopian tubes	0	0.04	0.0	0	0.10	0.0	0	0.09	0.0	0	0.19	0.0	0	0.42	0.0
Kidney, renal pelvis, ureter	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.06	0.0	0	0.12	0.0
Bladder, other urinary	0	0.02	0.0	0	0.04	0.0	0	0.04	0.0	0	0.09	0.0	0	0.20	0.0
Melanoma of the skin	0	0.01	0.0	0	0.03	0.0	0	0.03	0.0	0	0.07	0.0	0	0.14	0.0
Eye	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0
Brain, central nervous system	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.05	0.0	0	0.11	0.0
Thyroid gland	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.04	0.0	0	0.10	0.0
Bone	0	0.00	0.0	0	0.01	0.0	0	0.00	0.0	0	0.01	0.0	0	0.02	0.0
Connective tissue	0	0.00	0.0	0	0.01	0.0	1	0.01	105.6*	0	0.02	0.0	1	0.04	22.8
Lymphatic, hematopoietic system	0	0.06	0.0	0	0.13	0.0	0	0.11	0.0	1	0.25	4.0	1	0.55	1.8
Non-Hodgkin's lymphoma	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.09	0.0	0	0.20	0.0
Hodgkin's disease	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.03	0.0	0	0.07	0.0
Multiple myeloma	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.04	0.0	0	0.08	0.0
Leukemias	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	1	0.08	11.9	1	0.19	5.2
Chronic lymphocytic	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0	0	0.05	0.0
Acute nonlymphocytic	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	1	0.03	32.2	1	0.07	14.5

+ ICD-O code = 170.

* P<.05.